

# DIN EN ISO 8692:2012-06 (E)

## Water quality - Fresh water algal growth inhibition test with unicellular green algae (ISO 8692:2012)

---

<b>Contents</b>		<b>Page</b>
Foreword .....		3
1	Scope .....	4
2	Normative reference .....	4
3	Terms and definitions .....	4
4	Principle .....	5
5	Reagents and media .....	5
6	Apparatus .....	7
7	Procedure .....	8
7.1	Preparation of growth medium .....	8
7.2	Preparation of pre- culture and inoculum .....	8
7.3	Choice of test sample concentrations .....	8
7.4	Preparation of test sample and stock solutions .....	8
7.5	Preparation of test and control batches .....	9
7.6	Incubation .....	9
7.7	Measurements .....	10
8	Validity criteria .....	10
9	Calculation .....	10
9.1	Plotting of growth curves .....	10
9.2	Calculation of percentage inhibition .....	11
9.3	Determination of ErCx (e.g. ErC10 and ErC50) .....	11
10	Expression of results .....	11
11	Interpretation of results .....	12
12	Precision .....	12
13	Test report .....	12
Annex A (normative) Rapid screening of waste water algal growth inhibition .....		14
Annex B (normative) Test procedure with algae from algal beads, with direct measurement of algal growth in spectrophotometric cells .....		17
Annex C (normative) Procedure for immobilization of algae in alginate beads .....		22
Bibliography .....		24